

Attachment 3. Low-Level Measurement of PAHs in Soil/Sediment

This attachment allows for the measurement of low-level PAHs in soil/sediment by calibrating the GC/MS to a lower level. No other modifications beyond preparing the calibration standards at lower levels are required. The RLs were determined from the RL study with LIMS work order # 1101008 and are assigned as follows:

Compound Name	RL (ug/kg)
Naphthalene	3.3
2-Methylnaphthalene	16.5
Acenaphthylene	3.3
Acenaphthene	3.3
Fluorene	16.5
Phenanthrene	16.5
Anthracene	3.3
Fluoranthene	16.5
Pyrene	16.5
Benzo (a) anthracene	16.5
Chrysene	3.3
Benzo(b)fluoranthene	3.3
Benzo(k)fluoranthene	16.5
Benzo(a)pyrene	3.3
Indeno(1,2,3-cd)pyrene	16.5
Dibenz(a,h)anthracene	16.5
Benzo(g,h,i)perylene	16.5

The dilution scheme to be used for the calibration standards is as follows:

Calibration Standard Concentration (ug/mL)	100 ug/mL Stock Solution Volume (uL)	DCM Volume (uL)	Total Volume (uL)
0.1	1	999	1000
0.2	2	998	1000
0.5	5	995	1000
1	10	990	1000
2.5	25	975	1000
5	50	950	1000
10	100	900	1000
25	250	750	1000
50	500	500	1000
75	750	250	1000
100	1000	0	1000